



[J Med Vet Mycol.](#) 1994;32(1):1-11.

## **Specific inhibition of acid proteinase secretion in *Candida albicans* by Lys-Nva-FMDP.**

[Milewski S](#), [Mignini F](#), [Covelli I](#), [Borowski E](#).

Department of Pharmaceutical Technology and Biochemistry, Technical University of Gdansk, Poland.

### **Abstract**

Secretion of aspartic (acid) proteinase by *Candida albicans* is inhibited by the action of a new anticandidal agent, L-lysyl-L-norvalyl-[N3-(4-methoxyfumaroyl)]-L-2,3-diamino pro panoic acid (Lys-Nva-FMDP), at low, even sub-minimum inhibitory concentrations. The observed phenomenon is a direct consequence of inhibition of the enzyme, glucosamine-6-phosphate synthase. As a result of this inhibition, biosynthesis of candidal mannoproteins is markedly reduced. A possible correlation between general inhibition of mannoprotein biosynthesis and acid proteinase secretion is suggested. The reported inhibition of acid proteinase secretion by Lys-Nva-FMDP is more specific than the previously described effects of methyl patricin, 5-fluorocytosine and fenticonazole.

PMID: 8207618 [PubMed - indexed for MEDLINE]